

GROUP 1700

RECEIVED
JUL 2 2 7003
GROUP 1700

Amendments to the Claims:

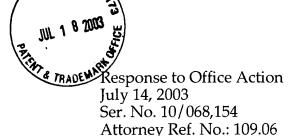
In the claims:

- 1. (Currently Amended): A fuel cell assembly comprising:
 - a membrane electrode assembly;
 - a bipolar separator plate; and

independently-acting compliant electrical contacts <u>attached to said bipolar</u> separator plate, for pressing against a membrane electrode assembly of an <u>adjacent fuel cell assembly</u>. disposed between said membrane electrode assembly and said bipolar separator plate.



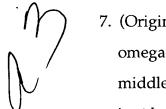
- 2. (Original): A fuel cell stack, comprised of a first assembly according to claim 1 and a second assembly according to claim 1, wherein the independently-acting compliant electrical contacts of said first assembly are in electrical contact with the membrane electrode assembly of said second assembly.
- 3. (Currently Amended): The fuel cell assembly according to claim 1 wherein said independently-acting compliant electrical contacts comprises springs.
- 4. (Currently amended): The fuel cell assembly according to claim <u>4.3</u>, wherein said springs are inverted-V shaped.



Page 5

RECEIVED JUL 2 2 7003 GROUP 1700

- 5. (Original): The fuel cell assembly according to claim 1, wherein said springs are S-shaped.
- 6. (Original): The fuel cell assembly according to claim 1, wherein said springs are Z-shaped.



- 7. (Original): The fuel cell assembly according to claim 1, wherein said springs are omega-shaped, wherein said omega-shaped springs have a height and a tapered middle section, said tapered middle section having a width, and wherein said width is at least 50% as great as said height.
- 8. (Original): The fuel cell assembly according to claim 1, wherein said independently-acting compliant electrical contacts are formed into an array having a length, wherein said membrane electrode assembly has a length, and wherein said length of said array is approximately equal to said length of said membrane electrode assembly.
- 9. (Original): The fuel cell assembly according to claim 1 wherein said independently-acting compliant electrical contacts are formed into an array having a width, wherein said membrane electrode assembly has a width, and wherein said width of said array is approximately equal to said width of said membrane electrode assembly.

Response to Office Action July 14, 2003 Ser. No. 10/068,154 Attorney Ref. No.: 109.06

Page 6

10. (Original): The fuel cell assembly according to claim 8 wherein said independently-acting compliant electrical contacts are formed into an array having a width, wherein said membrane electrode assembly has a width, and wherein said width of said array is approximately equal to said width of said membrane electrode assembly.



- 11. (Withdrawn pursuant to restriction requirement): A fuel cell assembly comprising:

 a membrane electrode assembly;

 a non-bipolar separator plate; and

 independently-acting compliant electrical contacts disposed between said

 membrane electrode assembly and said non-bipolar separator plate.
- 12. (Currently Amended): Independently-acting compliant electrical contacts for attachment to a bipolar separator plate and for pressing against a maintaining electrical contact between a bipolar separator plate and a membrane electrode assembly in a fuel cell stack.
- 13. (Original): The independently-acting compliant electrical contacts according to claim 12, wherein said independently-acting compliant electrical contacts comprise springs.
- 14. (Currently amended): A method for maintaining electrical contact between a bipolar separator plate and a membrane electrode assembly in a fuel cell stack

Response to Office Action July 14, 2003 Ser. No. 10/068,154 Attorney Ref. No.: 109.06

Page 7

comprising placing attaching independently-acting compliant electrical contacts between to said bipolar separator plate and positioning said independently-acting compliant electrical contacts so as to press against said membrane electrode assembly.



15. (Currently amended): A fuel cell assembly comprising:

a membrane electrode assembly;

a bipolar separator plate; and

flexible means attached to said bipolar separator plate and pressed against said membrane electrode assembly for making electrical contact between said membrane electrode assembly and said bipolar separator plate.

16. (Currently amended): A fuel cell assembly comprising:

a membrane electrode assembly;

a bipolar separator plate; and

flexible electrical contact members <u>attached to said bipolar separator plate</u>

<u>and pressed against said membrane electrode assembly.</u> disposed between said membrane electrode assembly and said bipolar separator plate.

17. (Original): The fuel cell assembly according to claim 16, wherein said flexible electrical contact members comprise a plurality of springs, whereby said springs maintain independently-acting compliant electrical contact between said membrane electrode assembly and said bipolar separator plate.

Response to Office Action July 14, 2003 Ser. No. 10/068,154 Attorney Ref. No.: 109.06 Page 8

18. (Original): A fuel cell assembly, comprising:

a bipolar separator plate, said bipolar separator plate having a first side and a second side;

a membrane electrode assembly, attached to and sealed to said first side; and

independently-acting compliant electrical contacts attached to said second side. , for pressing against a membrane electrode assembly of an adjacent fuel cell assembly.

- 19. (Original): A fuel cell stack, comprised of a first assembly according to claim 18 and a second assembly according to claim 18, wherein the independently-acting compliant electrical contacts of said first assembly are in electrical contact with the membrane electrode assembly of said second assembly.
- 20. (Currently Amended): A fuel cell assembly comprising:
 - a membrane electrode assembly;
 - a bipolar separator plate; and

an independently-acting compliant electrical contact <u>attached to said</u>
<u>bipolar separator plate and pressed against said membrane electrode</u>
<u>assembly. disposed between said membrane electrode assembly and said</u>
<u>bipolar separator plate.</u>

Response to Office Action July 14, 2003 Ser. No. 10/068,154 Attorney Ref. No.: 109.06 Page 9

21. (Currently Amended): A fuel cell assembly comprising:

a membrane electrode assembly;

a bipolar separator plate;

first means for maintaining electrical contact <u>attached to said bipolar separator</u> plate and pressed against said membrane electrode assembly between said membrane electrode assembly and said bipolar separator plate; and second means for sealing said membrane electrode assembly with said bipolar separator plate, wherein said second means functions independently from said first means.

